

# The Anchorage Amateur Radio Club News Bulletin

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Volume 26 No. 11

November 1997

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**General Meeting  
November 7th**

## Election of Officers for the Coming Year!!!

**Brief Introductions and  
Comments From  
Students at APU  
Who Have Received  
Scholarships Made Available  
By The  
Anchorage Amateur Radio Club**

AARC Website

<http://nl7nc.akconnect.com/aarc.htm>

**What's Up?**

**General Meeting** First Friday of Month - Carr-Gottstein Bldg APU Campus 7 pm  
Second Bldg on the left. Room 102

**Board Meeting** - Second Wednesday 7 pm - Grant Hall APU Room 150

**VEC Testing** - 1st Wed 6:30 pm, Carr-Gottstein Bldg.; 2nd Saturday, 2 pm Hope  
Cottage - 530 W. International Airport Road. Enter rear of Bldg.

3rd Wednesday, VFW Hall -Eagle River 7 pm

No appointment needed. Bring copies of previous Testing. Bring Photo ID

Second Friday **SCRC** General Meeting 7 pm Room 220 Bus Ed Bldg UAA



## Election of Officers - 1998

## List of Nominees

President	Lil Marvin NL7DL Peter Bailey WL7BW	One Year Board Member Dianne Hammer NL7KN John Murray NL7WW Fred Erickson KL7VC John Orella KL7LL Corny Eastman KL0FK John Lynn Jr KL0CY Edythe Lynn KL0EO Bill Reiter KL7ITI Jack Crowell W6BUS Dave Filley WL7CDJ
V. President	Ed Maher NL7VP Paul Spatzek WL7BF	
Activities Mgr	_____	
Secretary	Susan Woods NL7NN _____	
Treasurer	_____	

## Three Year Board Member

Simon Carraway NL7VR  
Paul Spatzek WL7BF  
John Murray NL7WW  
Bruce McCormick WL7YR

## Continuing Board Members

Mel Saunders AL7PB 3 yr Brd Mbr  
Harvey Rookus NL7DK " " "  
John Wolfe AA0NN Trustee  
Larry Strain N7DF Past Pres.

Try to come up with names to fill in the blanks for Activities Manager and Treasurer. Ask about the chores for Treasurer as it is not the job it used to be!!

## Minutes of General Meeting - October 3rd 1997

The October General meeting was called to order by Rob AL7KK who pointed out Yaesu caps (Flea Market leftovers) that were available at the front of the room.

During introductions Susan NL7NN was making lists of nominees for next year's open positions on the chalkboard.

Rob read a letter of appreciation from the Alaska Mountain Rescue Group for our \$1000 contribution. The Anchorage Fire Chief has also sent a "Thank You" for our \$1000 to the "See the Light" fund.

Rob raised the issue of a request by APU to change our scholarship fund formula to allow for inflation-proofing in such a manner that more students could benefit. After a lively debate, a motion to table the discussion until more information is available was made by John AA0NN. Motion carried. Gene AL7HX will do some research and rewrite a response to APU in correct financial terms. The change will then have to be endorsed by the membership. NEXT MEETING, Folks!

An LED flashlight that had been presented previously by Rob as a suggestion for kids' projects in introductory electronics has been copied by others successfully. Good idea.

Doug KL7IKX gave a comprehensive and impressive technical report. (Much of it over my head). There has been a complete changeout on Eagle and Eagle 4 on Site Summit. Jim Moody NL7C has donated a TNC and a radio. (Thanks Jim.)

Rick KL7YF and Lil NL7DL changed the batteries on the 90-30 repeater because the others were exhibiting signs of old age. (Me too.)

FAA now requires each user of Site Summit to have a separate contract with them. The PARKA club must now pay \$225 per year for electricity. Doug suggests that AARC might help out if needed.

Since the repeater site had been vandalized during the summer, Doug fixed the resulting hole with 3/4 inch steel plates inside and out. 'Twill require a very thin person to get in now. (Diameter of 8" or less.)

Since the 220 repeater is willfully turning itself off now and then, Doug will look at it soon.

Doug needs volunteers to put back together an Amateur TV Fast Scan repeater. Anyone who's willing to learn will be welcome! It will need a retune and a new crystal and heated storage. Anyone out there???

Any amateur with the correct code can pick up the severe weather warning system. Contac KB5YJC Mike Davis to get the code. 147.18 with a +offset. End report. (How'd I do, Doug?) Report continued on Page 3



## Minutes of General Meeting continued from page 2

Rob declared that the Hamfest was considered a success even though the gross income of \$4500 did not cover expenses.

John AA0NN has a repeater at Vylma's place in Trapper Creek for the link to Fairbanks using a wind generator purchased by the club. It is 145.49 with a 103.5 PL tone on output and a carrier squelch on input.

In the absence of scheduled speakers, Rick asked for comments on the Hamfest and then added some comments of his own. He and Lil learned a lot from Gordon West and may have arm-wrestled him into returning the 3rd week of September, 1998. He may even help us get a dealer display for next year.

Lil announced their radio classes which include novice, tech, general and advanced preparation for both written and code testing. Try 277-6741.

DEBRA LAWSON HAS BEEN RETAINED AS BOOKKEEPER TO LIGHTEN THE LOAD OF THE TREASURER WHEN WE FIND ONE!  
by Arlene KL7HO for Susan

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 Minutes of October Board Meeting 8 October 1997

The Anchorage Amateur Radio Club held its monthly board meeting on 8 October 1997 at Grant Hall on the APU Campus. The meeting was called to order by our President - Rob Wilson AL7KK. Others present were the following: Secretary - Susan Woods, NL7NN; 3 yr Board Members - Simon Carraway, NL7VR; Mel Saunders, AL7PB; Harvey Rookus, NL7DK; One Year Board Members - Dianne Hammer, NL7KN; John Murray, NL7WW; and Fred Erickson, KL7VC. Mel Saunders, AL7PB reported that the Flea Market/Hamfest cost AARC approximately \$5000. There remains in question the amount of income PARKA's took in on Saturday.

There will be no disbursement of funds by Boniface Bingo for the month of September. They are currently undergoing an audit by the State and are expected to pass with flying colors.

The adoption of next year's budget was discussed. It was agreed, that we adopt last years budget with appropriate minor adjustments. The motion was made by Mel Saunders, AL7PB, seconded by Simon Carraway, NL7VR, and the passage was unanimous. To maintain the legalities of our gaming license - the business expenses are covered by the amount the dues bring in, while the Public Service expenditures come out of the gaming funds.

Gene Eaton, AL7HX, is working on a solution to the question passed by Alaska Pacific University at September's AARC board meeting. Gene is investigating a five year sliding average CPI which is similar to what the State of Alaska uses to figure the Permanent Fund Dividends. The Anchorage Amateur Radio Club's endowment of Alaska Pacific University is worth approximately \$147,000. Fred Erickson, KL7VC reported that we have approximately 330 members.

Harvey Rookus, NL7DK, requested \$300 to cover postage for the newsletter. It runs about \$57 per month. A current AARC Roster will be included in the November issue. A New Editor is being sought for the Newsletter.

Susan Woods, NL7NN, requested \$850 to purchase five sets of library books from ARRL. They will be distributed by Roger Hansen, KL7HFQ. Motion was made by Susan Woods, NL7NN, seconded by Fred Erickson, KL7VC and approved by a unanimous vote.

The Nominations for the November election currently stand as follows:

President: Lillian Marvin, NL7DL; Peter Bailey, WL7BW. Vice President: Ed Maher, NL7VP; Paul Spatzek, WL7BF.  
Secretary: Susan Woods, NL7NN; \_\_\_\_\_ Activities Manager: \_\_\_\_\_;  
Treasurer: \_\_\_\_\_. Three year board member: Vote for one: Simon Carraway, NL7VR; Paul Spatzek, WL7BF; John Murray, NL7WW; Bruce McCormick, WL7YR. One Year board member: vote for six: Dianne Hammer, NL7KN; John Murray, NL7WW; Fred Erickson, KL7VC; Bruce McCormick, WL7YR; John Orella, KL7LL; Cornelius "Corny" Eastman, KL0FK; John Lynn Jr., KL0CY; Edythe Lynn, KL0EO; Bill Reiter, KL7ITI; Jack Crowell, W6BUS; Dave Filley, WL7CDJ.

The meeting adjourned at 8:29 pm.

Respectfully submitted by Susan Woods, NL7NN  
Secretary, AARC Inc.

AARC95-All Accounts  
10/ 7/97

Balance Sheet  
As of 10/ 7/97

Page :

Account	10/ 7/97 Balance
-----	
ASSETS	
CURRENT ASSETS	
AARC Gaming-	10,487.11
AARC Holding-	1,140.10
Bond Account-	5,183.55
Business Acct-	8,462.70
Life Membership-	23,936.72
TOTAL CURRENT ASSETS	49,210.18
	-----
TOTAL ASSETS	49,210.18
	=====
 TOTAL LIABILITIES	 0.00
EQUITY	
EQUITY ACCOUNTS	
Open Bal Equity-Opening Bal Equity	47,337.22
TOTAL EQUITY ACCOUNTS	47,337.22
	-----
CURRENT EARNINGS	1,872.96
	-----
TOTAL EQUITY	49,210.18
	-----
TOTAL LIABILITIES AND EQUITY	49,210.18
	=====

9-30-97



A NON-PROFIT CORPORATION  
AFFILIATED WITH  
MOUNTAIN RESCUE ASSOCIATION  
EMPLOYER I.D. 003-000071

Anchorage Amateur Radio Club, Inc.  
P.O. Box 101987  
Anchorage, Alaska 99510-1987

Attention: Robert Wilson, President

Subject: Alaska Mountain Rescue Group  
CLUB DONATION

Dear Robert Wilson and Club Members,

The Alaska Mountain Rescue Group (AMRG) wishes to extend its grateful appreciation for the \$1,000 donation. We're always evaluating the Group equipment needs, and have established a Master Plan that will allow the AMRG to respond to the ever-changing conditions in Backcountry Search and Rescue.

Communication Gear is on the top of the list, & receives highest priority in procurement. You can be assured that 100% of your donation will be designated for that particular purpose.

We thank the Anchorage Amateur Radio Club for their support, and wish all members the best in achieving their goals in communication.

Thanks again, and have a wonderful Holiday.

Sincerely,

  
J. Michael Thompson  
AMRG V. Chairman

Municipality  
of  
Anchorage



FIRE DEPARTMENT  
Administration  
(1301 East 80th Avenue)

P.O. Box 1960650  
Anchorage, Alaska 99519-6060  
Telephone: (907) 267-4500

*Rick Mystrum, Mayor*

September 19, 1997

Anchorage Amateur Radio Club  
Attn: Robert Wilson  
PO Box 101987  
Anchorage, AK. 99510-1987

Dear Mr. Wilson,

I and the personnel of the Anchorage Fire Department would like to extend our thanks and appreciation for the donation made by your organization. The fund-raising activities have slowed a little, but began again in earnest a couple of months ago. The timing of your donation could not have been better. It has given a boost to the activities of Ada Goodman, the coordinator of the fund raising. Channel 2, Alyeska and the TAPS Alliance have gotten onboard with donations, air time and the production of a safety book for children. The proceeds of the sale of the book all go to the "See the Light Fund".

The acquisition of the helmets for the Anchorage Fire Department will increase the potential life-saving capabilities of our firefighters. Once again I would like to thank you and the members of the Anchorage Amateur Radio Club for the help you have given to Mrs. Goodman's fund.

Sincerely,

*Mike Nolan*  
Mike Nolan,  
Fire Chief



ALASKA KIDNEY FOUNDATION, INC.  
A Private, Non-Profit Corporation

August 18, 1997

Robert Wilson, President  
Anchorage Amateur Radio Club  
P.O. Box 101987  
Anchorage, AK 99510-1987

Dear Mr. Wilson:

On behalf of the Alaska Kidney Foundation and the Alaskans it serves, I want to acknowledge your \$1,000 donation and thank all the members of the Anchorage Amateur Radio Club for this generous contribution. Your donation will be used to provide assistance to Alaskans on dialysis.

Please express our gratitude to all of the members of your organization.

Yours truly,

*Robert D. Swartz*

Robert D. Swartz  
Administrator



## A Little Humor From My E-Mail

Hangar Talk: On the lighter side

The German controllers at Frankfurt Airport were a short tempered lot, they not only expected you to know your parking location but how to get there without any assistance from them, so it was with some amusement that we (Pan Am 747) listened to the following exchange between Frankfurt ground and a British Airways 747 (Speedbird)

Speedbird: "Good morning Frankfurt, Speedbird 206 clear of the active."

Ground: "Guten morgan, taxi to your gate."

The BA 747 pulls onto the main taxiway and stops.

Ground: "Speedbird, do you not know where you are going?!"

Speedbird: "Standby ground, I'm looking up the gate location now."

Ground (with typical German patience): "Speedbird, have you never been to Frankfurt before?!"

Speedbird (cooly): "Yes, 1944, but I didn't stop."

This must have been one heck of a cruise!

### Naval History - Wooden Ships and Iron Men

The following is from a tale related by the chief curator of the National Park Service, and printed in no less an authoritative source than Oceanographic Ships, Fore and Aft, published by the Oceanographer of the Navy. It has to do with a cruise of the 204-foot frigate USS Constitution, commonly known as Old Ironsides, in 1779. We quote:

"On 23 August 1779, the USS Constitution set sail from Boston loaded with 475 officers and men, 48,600 gallons of water, 74,000 cannon shot, 11,500 pounds of black powder and 79,400 gallons of rum. Her mission: to destroy and harass English shipping. On 6 October, she made Jamaica, took on 826 pounds of flour and 68,300 gallons of rum. Three weeks later the Constitution reached the Azores, where she provisioned with 550 pounds of beef and 6,300 gallons of Portuguese wine. On 18 November, the ship set sail for England where her crew captured and scuttled 12 English merchant vessels and took aboard their rum. But the Constitution had run out of shot."

Nevertheless, she made her way unarmed up the Firth of Clyde for a night raid. Here her landing party captured a whiskey distillery, transferred 40,000 gallons aboard and headed for home. On 20 February 1780, the Constitution arrived in Boston with no cannon shot, no food, no powder, no rum, no whiskey. Just 48,600 gallons of water."

Detail analysis: Length of cruise - 181 days  
Booze consumption - 2.26 gallons per MAN per day (plus whatever they rescued from the 12 English merchant ships)  
Guestimated re-enlistment rate - 100%  
Probable EPA Award of Gold Certificate for water conservation

Amateur Radio RF Safety Calculator

<<http://www.cs.utexas.edu/users/kharker/rfsafety/>>

## AARC\_Ros

LastName	FirstName	Pfx	#	Sfx	Street	City	ST	Zip
176/CF MARS					6001 Air Guard Rd	Anchorage	AK	99502-1958
Addison	Jim	WL	7	NJ	8220 Elderberry	Anchorage	AK	99502-4243
Alaska Pacific University					4101 University Dr	Anchorage	AK	99508-4625
Allen	Ken	WL	7	XK	636 E Auklet Ave	Palmer	AK	99645-6127
Allmaras	Veronica	WL	7	RZ	POB 110202	Anchorage	AK	99511-0202
Amateur Radio News					4306 N 23rd St	Waco	TX	76708-1107
American Red Cross					POB 101139	Anchorage	AK	99510-1139
ARRL - W1AW					225 Main St	Newington	CT	06111-1400
Arsenault	John	kl	7	IQP	In Memory - Silent Key	Kenai	AK	
Baker, Jr	Robert	NL	7	UQ	5825 E 1st St	Tucson	AZ	85711-1508
Baker, Sr	Robert	NL	7	UH	840 Breakwater Cr	Anchorage	AK	99515-3632
Ball	Virgil	AL	7	GJ	POB 315	Glennallen	AK	99568-0315
Balzarini	Bill	KL	7	BB	2525 S 355th Pl	Federal Way	WA	98003-9143
Barker	William	AL	7	JT	9021 Noble Cr	Anchorage	AK	99502-5359
Bates	Thomas	NL	7	ON	7060 Cheryl St	Anchorage	AK	99518-2037
Bathony	Tibor				1420 NW Gaman Bl #2153 ***	Issaquah	WA	98027-7001
Beaugard	P	KL	7	EJ	7320 Augustine Dr	Anchorage	AK	99504-3602
Belfield	Jean	KL	7	VT				
Bender	Jim	KL	7	ZV	23026 100th Av So	Kent	WA	98031-3231
Benson	A	NL	7	EY	In Memory - Silent Key	Anchorage	AK	
Benson	Bruce	NL	7	NW	5331 Whispering Spruce Dr	Anchorage	AK	99516-2307
Berg	Linda	NL	7	RE	4210 Frontier Ln	Anchorage	AK	99516-2219
Berg & Family	Blaine	KL	7	TG	4210 Frontier Ln	Anchorage	AK	99516-2219
Bianco	Allen	KL	7	FKO	In Memory - Silent Key	Anchorage	AK	
Bierman	John	KL	7	GNP	4304 Garfield St	Anchorage	AK	99503-6438
Bledsoe	Craig	KL	4	E	18811 Jamie Dr	Eagle River	AK	99577-7937
Bosco, Jr	Edward	W	6	RO	4700 Riverton Av	Anchorage	AK	99516-3658
Bouden	Jeff				1747 Kuskokwim	Anchorage	AK	99508-3227
Bowlin	Frank	WL	7	D	POB 325	Aptos	CA	95001-0325
Bowman	Harry	WL	7	JW	4014-3A Calle Sonora Oeste	Laguna Hills	CA	92653-3247
Brasseur	Herbert	KL	7	JIG	HC 89 Box 78	Mirror Lake	NH	03853-9713
Bronner	Beverly	WL	7	AZ	2240 Banbury Dr	Anchorage	AK	99504-3359
Bronner & Family	Jack	WL	7	AC	2240 Banbury Dr	Anchorage	AK	99504-3359
Brown	Mary	NM	7	N	504 Channel View Dr	Anacortes	WA	98221-9501
Burkevich	Walter	KL	7	IW	In Memory - Silent Key	Anchorage	AK	
Bury	John	KL	7	QZ	10300 Thuja Cr	Anchorage	AK	99507-4121
Cadman	Belva				3212 Creekside Dr	Anchorage	AK	99504-4025
Cadman & Family	Ted	KL	7	CCI	3212 Creekside Dr	Anchorage	AK	99504-4025
Capers	Bill	AL	7	BB	1414 Paterson	Anchorage	AK	99504-2745
Carraway	Al	WL	7	LA	5070 Nottingham Wy	Anchorage	AK	99503-6936
Carraway	Connie	WL	7	KZ	5070 Nottingham Wy	Anchorage	AK	99503-6936
Carraway	William	WL	7	MC	5070 Nottingham Wy	Anchorage	AK	99503-6936
Carraway & Family	Simon	NL	7	VR	5070 Nottingham Wy	Anchorage	AK	99503-6936
Carroll	Jon	KL	0	BB	13320 Alpine Dr	Anchorage	AK	99516-3131
Carty	John	WA	1	ACN	5051 Bryn Mawr Ct	Anchorage	AK	99508-4721
Chase	Arthur	KL	7	FS	798 S Michael Wy	Starwood	WA	98292-7561
Christensen	Robert	KL	7	ERV	POB 871075	Wasilla	AK	99687-1075
Christl, Sr	Robert	KL	7	UR	POB 381	Kasilof	AK	99610-0381
Clare	Mariam	WL	7	CFA	10901 Clare Cr	Anchorage	AK	99516-1609
Clough	John				5232 E 24th Av #A	Anchorage	AK	99508-3834
Cole	Edward	AL	7	EB	POB 8672	Nikiski	AK	99635-8672
Coleman	Charles	KL	7	CMQ	POB 200132	Anchorage	AK	99520-0132
Collison	Les	KL	7	GRT	POB 85	Easton	WA	98925-0085
Comfort	Timothy	NL	7	SK	POB 795	Palmer	AK	99645-0795
Conary	Lorraine	KL	7	IAF	6044 Staedern Dr	Anchorage	AK	99504-1624
Crauswell	Kevin	WL	7	BPY	POB 142564	Anchorage	AK	99514-2564
Crowell	Jack	W	6	BUS	5819 Image Cr	Anchorage	AK	99504-4396
Curman	Joyce	KL	7	MQ	95 Old Alabama Wagon Rd SW	Taylorville	GA	30178-1800
Day	Richard	KL	7	SH	10901 Hideaway Lake Dr	Anchorage	AK	99516-1146
Delancy	April	AL	7	CV	POB 189	Byrantown	MD	20617-0189
Delancy & Family	JD	K	1	ZAT	POB 189	Byrantown	MD	20617-0189
Dennis	Richard	KL	7	IOL	General Delivery	Alakanuk	AK	99554-9999
Devoe	Harold	KL	7	MF	In Memory - Silent Key	Anchorage	AK	



## AARC\_Ros

HmPhone	WkPhone	Fax	AARC	E-Mail
			COMP	
( ) 243-1849			9801	
			COMP	
( ) 745-5848	( ) 896-9743		9711	
( ) 233-1803	( ) 261-4837		9806	tkdnava@alaska.net
			COMP	
			COMP	
			COMP	
			L023	
(602) 747-7584			L154	
( ) 345-4892			9804	docbob@alaska.net
(907) 822-5276	(907) 822-3201		9801	
(253) 661-7373			L088	kl7bb@juno.com
( ) 243-7815	( ) 552-5094		L136	
( ) 344-5862			9710	
			L096	
( ) 333-8865	( ) 265-8658		L019	
			L094	
			L080	
			L119	
( ) 345-0929	( ) 269-1131		9709	
( ) 348-8566		( ) 348-8560	9711	b2berg@ptialaska.net
( ) 348-8566		( ) 348-8560	9711	b2berg@ptialaska.net
			L024	
( ) 562-5001			L002	
( ) 694-4730	( ) 428-6070		L156	
( ) 345-4530			9806	
( ) 562-2772			LHON	
			L089	
(714) 859-4114			9805	
			L008	
( ) 333-8614			9711	
( ) 333-8614			9711	
			COMP	4150836@mcimail.com
			L007	
( ) 348-8754			9808	110100.3612@compuserve.com
( ) 333-5823			9712	
( ) 333-5823			9712	
( ) 337-2916			L069	
( ) 561-0340	( ) 562-0004		9711	allanc@alaska.net
( ) 561-0340			9711	carraway@alaska.net
( ) 561-0340			9711	shoshin@erols.com
( ) 561-0340	( ) 349-8922		9711	carraway@alaska.net
( ) 345-1682			9710	
( ) 333-8987	( ) 265-4759		L126	
(206) 387-3604			L005	
			L127	
(907) 262-2439			9810	kl7ur@usa.net
( ) 346-3109	( ) 264-1435		9804	
	( ) 338-3089		L129	
( ) 776-5829	( ) 776-5129		L133	
			L115	
			L014	
( ) 745-1056			9809	
( ) 333-6305	( ) 561-1001	( ) 561-0242	9807	
( ) 244-8092	( ) 265-7536		9712	
			9801	
			L125	
( ) 278-1250	( ) 561-1902		L113	
			L066	al7cv@dsport.com
			L070	klzat@dsport.com
(907) 238-3377			L134	
			L018	



## AARC\_Ros

LastName	FirstName	Pfx	#	Sfx	Street	City	ST	Zip
Dickinson	Douglas	KL	7	IKX	POB 110672	Anchorage	AK	99511-0672
Dickson Sr	Thomas	AL	7	KO	In Memory - Silent Key	Anchorage	AK	
Don	Kenneth	AL	7	CY	POB 111221	Anchorage	AK	99511-1221
Dowding	Fielder	KL	7	FHX	909 Chugach Wy #35	Anchorage	AK	99503-5667
Dowling & Family	Richard	KL	0	DR	6960 Lovitt Cr	Anchorage	AK	99516-6548
Drake, Jr	Francis	KL	7	IPV	4964 Harvest Rd	Colorado Springs	CO	80917-1015
Dunbar	Lance	AL	7	BK	3153 Campbell Airstrip Rd	Anchorage	AK	99504-3626
Easterly	Lyle	NL	7	K	1526 Bannister Dr	Anchorage	AK	99508-3930
Eastman	Cornelius	KL	0	FK	3751 Leyden Rd	Anchorage	AK	99516-2814
Eaton	Carol	NL	7	UX	2952 Madison Wy	Anchorage	AK	99508-4477
Eaton & Family	Eugene	AL	7	HX	2952 Madison Wy	Anchorage	AK	99508-4477
Edge	Elien	KL	7	OR	POB 211869	Anchorage	AK	99521-1869
Edge	Erv	AL	7	CN	POB 700639	San Jose	CA	95170-0639
Eggleston	Ken	NL	7	SP	POB 1045	Bethel	AK	99559-1045
Epperson	Bud	KL	7	OB		Reno	NV	
Epstein	David	KL	7	LO	POB 100188	Anchorage	AK	99510-0188
Erickson	Jana	NL	7	WV	12531 Alpine Dr	Anchorage	AK	99516-3121
Erickson	Joan	WL	7	IB	12531 Alpine Dr	Anchorage	AK	99516-3121
Erickson & Family	Fred	KL	7	VC	12531 Alpine Dr	Anchorage	AK	99516-3121
Estes & Family	Steven	KL	7	XO	972 Ballaine Rd	Fairbanks	AK	99709-6610
Farkas	Bob	KL	7	TP	In Memory - Silent Key	Anchorage	AK	99508-4759
Farney	Harold	KL	7	HQJ	312 W Hastings Rd	Spokane	WA	99218-2500
Faultersack	Robert	KL	7	SV	27705 NE 37th St	Redmond	WA	98053-9136
Faultersack & Family	Beverly	WL	7	AXJ	27705 NE 37th St	Redmond	WA	98053-9136
Feaster	James	KL	7	KB	3205 Woodland Park Dr	Anchorage	AK	99517-2110
Filley	David	WL	7	CDJ	2440 E Tudor Rd POB 144	Anchorage	AK	99507-1185
Flygenring	Gunnar	WL	7	KL	2300 Loussac Dr	Anchorage	AK	99517-1229
Forsmoie	Palmer	W	0	VWJ	In Memory - Silent Key - 29 Sep	Hettinger	ND	58639-1185
Fredstrom	M. Neal	KL	7	HKP	3405 N Boyer Rd	Sandpoint	ID	83864-7401
Fuller	Lloyd	KL	7	JGN	9460 Strathmore Rd	Anchorage	AK	99515-1145
Fulton	Dave	KL	7	AGU	In Memory - Silent Key	Anchorage	AK	
Gamel	Beth	KL	7	ZP	5146 Sillary Cr	Anchorage	AK	99508-4943
Gamel & Family	William	KL	7	ZO	5146 Sillary Cr	Anchorage	AK	99508-4943
Ganopole	Jerry	WL	7	AME	2536 Arlington Dr	Anchorage	AK	99517-1303
Gates	Cecil	AL	7	QH	HC 66 Box 28850	Nenana	AK	99760-9702
Gelfert	Hubert	KL	7	IWV	12831 Tracy Wy	Anchorage	AK	99516-3302
Giebel	Alfred	KL	7	TO	8110 Jewel Lake Rd	Anchorage	AK	99502-4255
Gilbert	Bobbie	WL	7	GW	6021 Trappers Trail	Anchorage	AK	99516-2404
Gilbert & Family	Orv	KL	7	IZL	6021 Trappers Trail	Anchorage	AK	99516-2404
Giles	Don	AL	7	KD	14710 Park Hills Cr	Anchorage	AK	99516-4245
Gilmore	Harry	KL	7	VB	POB 303334	Anchorage	AK	99520-3334
Gleason	D.B.	KL	7	GGT	POB 698	Cooper Landing	AK	99572-0698
Gould	Roy	KL	4	T	7121 E 34th Av	Anchorage	AK	99504-4014
Graham	Fred	KL	7	FK	2208 Heavenly View Dr	Henderson	NV	89014-5005
Graham	James	KL	7	GNN	4411 Woronzof Dr	Anchorage	AK	99517-1423
Gratrix	Erlon	WL	7	BJB	In Memory - Silent Key	Anchorage	AK	
Greeley	Glen	KL	7	BI	POB 425	Pocatello	ID	83204-0425
Greene	Guy	KL	7	GHB	13520 Westwind Dr	Anchorage	AK	99516-3409
Greene	Ken	KK	6	MR	15483 Nancy Wy	Grass Valley	CA	95949-8960
Groomer	Wayne	KL	7	HHO	POB 874045	Wasilla	AK	99687-4045
Gunson	Robert	KL	7	PC	POB 774002	Eagle River	AK	99577-4002
Hadley	Mark	KL	7	HD	1304 W 15th Av	Anchorage	AK	99501-4904
Hallgrimson	Pete	NL	7	YH	4027 E 20th Ave #84	Anchorage	AK	99508-3683
Hammer	Dianne	NL	7	KN	1001 Boniface Pky #7-O	Anchorage	AK	99504-1601
Hammer & Family	Clarence	NL	7	HF	1001 Boniface Pky #7-O	Anchorage	AK	99504-1601
Hammond III	Lynn	KL	7	IKV	2632 Kenmore Cr	Anchorage	AK	99504-3248
Hanrath	Del	KL	7	JKW	In Memory - Silent Key	Willow	AK	
Hanrath	Rosemary	KL	7	LA	HC 89 Box 484	Willow	AK	99668-9705
Hansen	Roger	KL	7	HFG	POB 520343	Big Lake	AK	99652-0343
Hansen	Roy	KL	7	GQ	POB 884	Valdez	AK	99686-0884
Hanshaw	Adam &	WL	7	COD	POB 873438	Wasilla	AK	99687-3438
Harris	Bill	WL	7	AFN	1135 Nebraska Av NE	Salem	OR	97301-1232
Hauser	Sandy				POB 878025	Wasilla	AK	99687-8025

## AARC\_Ros

HmPhone	WkPhone	Fax	AARC	EMail
( ) 346-1822	( ) 267-1223		L079	kl7ilox@pobox.alaska.net
			9807	
( ) 345-1504	( ) 243-1987		L054	
( ) 563-6733			L064	
( ) 346-2274	( ) 285-5647	( ) 346-2275	9808	rpd@alaska.net
			L029	
( ) 337-6297	( ) 561-5457		L028	
( ) 277-2559	( ) 263-5007	( ) 277-5628	9809	compbyte@alaska.net
( ) 348-0720	( ) 271-5362		9803	anc40550@customcpu.com
( ) 276-5293	( ) 266-1630		9808	
( ) 276-5293			9808	
( ) 338-4409	( ) 561-1944		L053	
			L057	
(907) 543-2550	(907) 534-3548		L150	
			L065	
( ) 243-5916	( ) 271-5351		L075	
( ) 345-2181			9810	frederickson@iname.com
( ) 345-2181			9810	joanerickson@iname.com
( ) 345-2181			9810	frederickson@iname.com
(907) 479-5819	(907) 474-7425		9807	
( ) 333-5248			L083	
			L077	
			L123	
			L122	
( ) 243-1971			9810	
( ) 338-6293	( ) 561-1313		9806	dfiley@aonline.com
( ) 248-4727			9804	
			LHON	
			L085	
( ) 248-0229	( ) 564-1546		L011	
			LHON	
( ) 337-5237			9709	
( ) 337-5237	( ) 762-3131		9709	
( ) 277-7887			9712	
			9710	
( ) 345-1290	( ) 277-2663		9709	
( ) 243-2195			L082	
( ) 345-0829			9710	
( ) 345-0829			9810	
( ) 345-5113	( ) 659-8345		9712	
( ) 333-9067	( ) 271-5280		L132	
			L139	
( ) 333-5649			9712	gould@alaska.net
			L030	
( ) 248-4411	( ) 333-9561		9805	
			LHON	
			L060	
( ) 345-5840	( ) 267-6258		9810	guy_green@compuserve.com
			L045	
( ) 376-5604			L103	
( ) 694-7040			L116	
( ) 272-2767	( ) 274-3017		L027	
( ) 333-2014	( ) 343-4545		9801	
( ) 338-3367			9807	cwh@alaska.net
( ) 338-3367	( ) 261-3610		9807	cwh@alaska.net
( ) 337-6170	( ) 277-5750		9801	
			LHON	
( ) 465-6213			LHON	
( ) 892-6365	( ) 788-8121		L036	
			L012	
( ) 373-0763	( ) 745-9541		9809	ahanshew@alaska.net
(503) 585-4617			L149	
( ) 892-6877			L102	



LastName	FirstName	Pfx	#	Sfx	Street	City	ST	Zip
Haynes	Al	KL	7	HHR	POB 1149	Chickaloon	AK	99674-1149
Head	Beth Daniel	NL	7	FZ	829 Ralph Dr	Cary	NC	27511-4083
Heath	Jasper	KL	7	MD	POB 875336	Wasilla	AK	99687-5336
Hegg	Peter	NL	7	PS	HC 31 Box 5254A	Wasilla	AK	99654-9704
Hegg & Family	Aryn	NL	7	PR	HC 31 Box 5254A	Wasilla	AK	99654-9704
Hendricks	John	AL	7	OK	12840 Huffman Cr	Anchorage	AK	99516-2624
Hilton	Sue	NL	7	AV	POB 212302	Anchorage	AK	99521-2302
Hilton & Family	James	KL	7	IMD	POB 212302	Anchorage	AK	99521-2302
Hisamoto	Robert	KL	7	AM	3985 Dunlap Av	Fairbanks	AK	99709-3510
Hitchcock	Harold	KL	7	PG	3113 W 42nd Pl	Anchorage	AK	99517-2834
Hogg	Sallie	WL	7	CRR	POB 212595	Anchorage	AK	99521-2595
Howell	Don	KL	7	IFK	3477 S Sesta Rd	Yuma	AZ	85385-4145
HQ AIA/DOXX MARS					102 Hall Blvd #229	San Antonio	TX	78243-7029
Hummel	Robert	NL	7	ZG	624 E Auklet	Palmer	AK	99645-6127
Hurd	Pamela	NL	7	JH	2901 Concord Ln	Anchorage	AK	99502-3119
Hurd & Family	George	KV	9	D	2901 Concord Ln	Anchorage	AK	99502-3119
Iditarod Trail Committee					Pouch X	Wasilla	AK	99687
Jendryk	Paul	NL	7	BJ	6320 Loet Cr	Anchorage	AK	99502-3931
Jennings	Jay	KL	7	JGU	17033 124th Av SE	Seattle	WA	98058-6036
Jennings	Melvin	WL	7	NE	POB 671008	Chugiak	AK	99687-1008
Johnson	Gerard	NL	7	OO	601 Cedar Park Cr	Anchorage	AK	99515-3327
Johnson	Matthew	WL	7	IO	POB 984	Dillingham	AK	99576-0984
Johnson	Richard				POB 230531	Anchorage	AK	99523-0531
Johnson & Family	William	WA	0	LKT	POB 984	Dillingham	AK	99576-0984
Jones	John	NL	7	A	8280 E 20th Av	Anchorage	AK	99504-2911
Kelliher	Hannelore	NL	7	EA	11317 Terrace Hills	Eagle River	AK	99577-8282
Kelliher & Family	Mark	KL	7	TQ	11317 Terrace Hills	Eagle River	AK	99577-8282
Kelly	Kevin	WL	7	CMZ	13530 Ebbtide Cr	Anchorage	AK	99516-3487
Kelly Jr & Family	Robert	WL	7	EN	13530 Ebbtide Cr	Anchorage	AK	99516-3487
Kester	Tom	NL	7	GA	5902 DeBar Rd	Anchorage	AK	99504-2310
Ketka	Fred	KL	7	SE	POB 1541	Ocean Shores	WA	98569-1541
Knapp	Gunnar	WL	7	G	3730 Wesleyen Dr	Anchorage	AK	99508-4819
Kohler	Arther	WL	7	MX	8660 Flamingo Dr	Anchorage	AK	99502-5421
Kotsch	Richard	WL	7	CPX	SRA 8585	Indian	AK	99540-8585
Laidler	Jim	WL	7	VK	511 Sanford Ave	Richland	WA	99352-3843
Lane	Kenneth	KL	7	HH	1519 Ermine St	Anchorage	AK	99504-2650
Larsen	Geoffrey	KL	0	DT	1136 Gilmore Ct	Anchorage	AK	99503-6536
Larsen	James H	AL	7	FS	3445 Spinnaker Dr	Anchorage	AK	99516-3424
Larsen & Family	Stephanie	WL	7	SV	1136 Gilmore Ct	Anchorage	AK	99503-6536
Larson	Kent	KL	7	SD	POB 653	Fl Duchesne	UT	84026-0653
Lawrence	David	KL	7	HAB	6650 Valentine Cr	Anchorage	AK	99507-2134
Laws	Mary	NL	7	DM	2803 114th Av SW	Olympia	WA	98512-9004
Laws & Family	Claude	KL	7	IBZ	2803 114th Av SW	Olympia	WA	98512-9004
Lupo	Bob	W	7	ICI	POB 773166	Eagle River	AK	99577-3166
Lynn	Edythe	KL	0	EO	7013 Trafford Ave	Anchorage	AK	99504-1132
Lynn, Jr & Family	John	KL	0	CY	7013 Trafford Ave	Anchorage	AK	99504-1132
MacGregor	Shari	AL	7	FJ	3200 Upland Dr	Anchorage	AK	99504-4068
Maher	Edward	NL	7	VP	3032 W 42nd Pl #3	Anchorage	AK	99517-2851
Maitay	Betty	KL	7	AP	POB 8456	Columbia	MD	21045-8456
Maney	Rodney	KL	7	SA	130 Sorcerer Ct	Anchorage	AK	99518-3072
Marshall	Dianne	AL	7	FG	972 Ballaine Rd	Fairbanks	AK	99709-6610
Martin	William				2150 Patay St	Wasilla	AK	99654-3225
Martin & Family	Mama	NL	7	WT	2150 Patay St	Wasilla	AK	99654-3225
Marvin	Lillian	NL	7	DL	1030 Denali St	Anchorage	AK	99501-3712
Marvin	Rick	KL	7	YF	1030 Denali St	Anchorage	AK	99501-3712
McCormick	Bruce	WL	7	YR	611 Lori Dr	Anchorage	AK	99504-2112
McCormick3 ABMC	HM3 Scott	WL	7	CJM	Box 555191	Camp Pendleton	CA	92055-5191
McCrorey	Gary	AL	7	O	HC 67 Box 660	Anchor Point	AK	99556-9702
McKenzie	Gus	AL	7	IR	3701 Taiga Dr	Anchorage	AK	99516-2857
McKinney	Reed	KL	7	MJ	2010 Moore St	Anchorage	AK	99504-3258
McKinne	Rob	AL	7	AW	5602 Elisa Ln	Parker	TX	75002-6306
McLaughlin	Cathleen	NL	7	UY	11600 Trails End Rd	Anchorage	AK	99516-1252
McLaughlin & Family	Michael	WA	7	USX	11600 Trails End Rd	Anchorage	AK	99516-1252

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HmPhone	WkPhone	Fax	AARC	EMail
(907) 745-5433			L040	
			L142	
			L033	
( ) 376-8548	( ) 376-3201		9801	
( ) 376-8548	( ) 376-3201		9801	
( ) 346-8210	( ) 264-7675	( ) 264-7648	9807	
( ) 337-5058	( ) 266-1314		L078	
( ) 337-5058			L072	
(907) 479-5025			L003	
( ) 248-3308			9712	
			9803	
			L106	
			COMP	
( ) 746-4243	( ) 349-9100	( ) 746-4244	9808	ni7zg@alaska.net
( ) 243-0723	( ) 552-8879		9804	
( ) 243-0723	( ) 552-5652		9804	
			L137	
( ) 248-5312	( ) 261-3120		L093	tkdnava@alaska.net
			L092	
( ) 696-7648			9810	
( ) 349-5104	( ) 659-2487		9709	
( ) 842-2799			9809	105522.1135@compuserve.com
( ) 344-4060	( ) 274-0803		L086	
( ) 842-2793	( ) 243-1011	( ) 842-4447	9809	105522.1135@compuserve.com
( ) 333-7888			9801	
( ) 694-3722			L107	
( ) 694-3722	( ) 269-1147		L071	
( ) 345-4314			9807	
( ) 345-4314	( ) 659-8681		9807	
			L140	
			L087	
( ) 333-3195	( ) 786-7717		9805	
( ) 243-8441			9808	
( ) 653-7203	( ) 274-6277		9801	
			9809	
( ) 337-2092	( ) 272-0034		L038	
			9712	larsen95@customcpu.com
( ) 345-3190	( ) 264-7335		L043	larsenmc@alaska.net
( ) 562-5646	( ) 271-6380		9712	larsen95@customcpu.com
			L049	
			L034	
(206) 357-8117			L124	
	(206) 753-3489		L044	
( ) 694-5678	( ) 428-6960		L073	
( ) 337-1091			9805	jelynnjr@customcpu.com
( ) 337-1091	( ) 564-4391		9805	jelynnjr@customcpu.com
( ) 337-4194	( ) 562-8444		L108	
( ) 243-4348	( ) 249-3151		9810	
			L016	
( ) 344-3163	( ) 753-0518		L084	
(907) 479-5819	(907) 474-5534		9807	
( ) 373-6106			9801	
( ) 373-6108			9801	
( ) 277-6741			9801	rlment@alaska.net
( ) 277-6741	( ) 264-8459		9801	rlment@alaska.net
( ) 333-0340	( ) 274-7973		9802	mccorpp@corecom.net
			L157	
			L046	
( ) 345-0880			9810	
( ) 333-2659	( ) 266-3692		L052	
(214) 442-7251			L059	rob.m@chrysalis.org
( ) 346-3776	( ) 258-2000		9808	wa7usxmci@aol.com
( ) 346-3776	( ) 276-5121		9808	wa7usxmci@aol.com



## AARC\_Ros

LastName	FirstName	Pfx	#	Sfx	Street	City	ST	Zip
Meers	John	AL	7	LA	POB 863	Palmer	AK	99645-0863
Meyer	Barbara	AL	7	OA	2701 Kobuk Ct	Anchorage	AK	99508-3277
Meyer, Jr	John	AL	7	OG	2701 Kobuk Ct	Anchorage	AK	99508-3277
Michael	Sue	AL	7	BN	842 W 75th Av	Anchorage	AK	99518-2539
Michael & Family	Tim	NL	7	D	842 W 75th Av	Anchorage	AK	99518-2539
Mills	Bruce	KL	7	JDR	POB 1500	Soldotna	AK	99669-1500
Minton	James	KL	7	JLJ	POB 190121	Anchorage	AK	99519-0121
Missal	William	W	1	JM	12000 Audubon Dr	Anchorage	AK	99516-2420
Mockerman	Alice	WL	7	CAD	POB 520442	Big Lake	AK	99652-0442
Mockerman & Family	Gene	KL	7	GID	POB 520442	Big Lake	AK	99652-0442
Moody	Catherine	KL	7	NR	17320 Meadow Creek Dr	Eagle River	AK	99577-8181
Moody, Jr	James	NL	7	C	2371 Foxhall Dr	Anchorage	AK	99504-3338
Morgan	Wise	KL	7	CQ	POB 2210	Camp Verde	AZ	86322-2210
Morris	John	WL	7	DY	7440 Timothy Cr #4	Anchorage	AK	99502-7115
Morris, Jr	Eugene	KL	7	OK	2039 Shepherdia Dr	Anchorage	AK	99508-4043
Morrison	Steven	KL	7	ZJ	POB 210313	Anchorage	AK	99521-0313
Municipality of Anchorage					1301 E 80th Av c/o AFD	Anchorage	AK	99518-3308
Murray	John	NL	7	WW	POB 771916	Eagle River	AK	99577-1916
Neumann	Mike	KL	7	DZE	2392 Waldron Dr	Anchorage	AK	99507-1346
Neeley	Walter	W	5	AHO	RR 2 Box 308	Copperas Cove	TX	76522-9407
Neeley & Family	Martha	KL	7	QS	RR 2 Box 308	Copperas Cove	TX	76522-9407
Nightingale	Gregory	NL	7	H	14807 NE 28th Av	Vancouver	WA	98686-2115
Nightingale	Patricia	WL	7	NH	2426 Redwood St	Anchorage	AK	99508-3969
Nightingale & Family	Gordon	KL	7	GN	2426 Redwood St	Anchorage	AK	99508-3969
O'Connor	Frank	WL	7	ZU	3080 Amber Bay Loop	Anchorage	AK	99515-2304
O'Connor	Richard	WL	7	CPG	3080 Amber Bay Loop	Anchorage	AK	99515-2304
O'Connor & Family	Kristina	WL	7	ZT	3080 Amber Bay Loop	Anchorage	AK	99515-2304
Olendorff	Ed	KL	7	BCH	POB 521131	Big Lake	AK	99652-1131
Olendorff	Mary	KL	7	BJD	In Memory - Silent Key	Anchorage	AK	
Orella	John	KL	7	LL	POB 230416	Anchorage	AK	99523-0416
Paerels	Lisa	NL	7	MC	4841 E 115th Ave	Anchorage	AK	99516-1628
Paerels & Family	Eric	WL	7	JM	4841 E 115th Ave	Anchorage	AK	99516-1628
Page	Margie	KL	7	GLU	3533 Thompson Av	Anchorage	AK	99508-1136
Page & Family	Robert	KL	7	HIU	3533 Thompson Av	Anchorage	AK	99508-1136
Pagh	Cordell	NL	7	ZB	In Memory - Silent Key	Anchorage	AK	
Perry	Kenneth	AL	7	GA	3420 Cherry St	Anchorage	AK	99504-4121
Pettis	Timothy	KL	7	WE	In Memory - Silent Key	Anchorage	AK	
Phelps	Richard	K	7	TPN	3690 Round Bottom Rd	Cincinnati	OH	45244-3000
Phifer	William	AL	7	IG	4830 Sportsman Dr	Anchorage	AK	99502-4104
Piendadz	John	NL	7	AJ	148 Forest Ln	Harleyville	SC	29448-4321
Plack	Richard	KE	6	LHO	POB 1213	Palmer	AK	99645-1213
Plumb	Earl	KL	7	EQX	1212 H St	Anchorage	AK	99501-4359
Powell	William	WL	7	VL	8450 Pioneer Dr	Anchorage	AK	99504-4253
Pratt	Dickson	KL	7	IWY	5805 S Lakeside Dr	Harrison	ID	83833-7604
Pratt	Frank	AL	7	CA	7446 E 20th Av	Anchorage	AK	99504-3429
Preston	Karin	KL	7	JES	POB 240027	Anchorage	AK	99524-0027
Preston	Terry	WL	7	TY	POB 71559	Fairbanks	AK	99707-1559
Preston & Family	Charles	KL	7	OA	POB 240027	Anchorage	AK	99524-0027
Raynelford	William	AL	7	JK	18730 Man-O-War Rd	Eagle River	AK	99577-8335
Reiter	William	KL	7	ITI	3343 Wesleyan Dr	Anchorage	AK	99508-4863
Rexford	Fenton	NL	7	BE	POB 137	Kaktovik	AK	99747-0137
Reynolds	Sherman	KL	7	QY	2848 Lore Rd	Anchorage	AK	99507-3010
Richards	John	KL	7	XR	POB 91018	Anchorage	AK	99509-1018
Rogers	John	KL	7	IEL	POB 878690	Wasilla	AK	99687-8690
Ronne, Jr	Marshall	KL	7	EU	POB 432	Seward	AK	99664-0432
Rookus	Harvey	NL	7	DK	3310 Checkmate Dr	Anchorage	AK	99508-4924
Rosenthal	Herbert	W	5	AN	10508 Karen Av NE	Albuquerque	NM	87111-3810
Rossini	Guy	NL	7	AD	100 Bunnell St #1B	Anchorage	AK	99508-5819
Rumery	Bryce	AL	7	DL	75 Ocean House Rd	Cape Elizabeth	ME	04107-1111
Runyan	Rachel	AL	7	FI	21551 Old Glenn Hwy	Chugiak	AK	99567-5632
Rutigliano	Thomas	NL	7	TZ	HC 30 Box 5388	Wasilla	AK	99654-9712
Ryan	Maeve	KL	7	TJ	9223 W Parkview Terr LP	Eagle River	AK	99577-8544
Sandel	Carolyn	WL	7	CTG	8811 July Creek Cr	Eagle River	AK	99577-8557

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HmPhone	WldPhone	Fax	AARC	EMail
( ) 745-6835	( ) 786-1177		9809	afirm@uas.alaska.edu
( ) 277-8365	( ) 276-6422		9712	
( ) 277-8365	( ) 269-8767		9712	
( ) 349-1673	( ) 271-3162		L104	
( ) 349-1673	( ) 564-9610		L061	
(907) 262-4373	( ) 659-5491		L062	
( ) 248-1965	( ) 562-2242		L130	
( ) 345-7520	( ) 243-1902		L143	
( ) 892-6168			9803	
( ) 892-6168			9803	
( ) 694-4077			L100	
			L017	
(802) 567-4294			L001	
( ) 243-3410	( ) 561-2465		9805	
( ) 272-1400	( ) 271-5808		L042	
( ) 337-7556	( ) 561-1030		L111	
			COMP	
( ) 696-7561			9807	ni7ww@comcom.net
( ) 563-3952			L056	
(817) 547-5501			L098	
(817) 547-5501			L099	
			L128	
( ) 279-1225			9712	
( ) 279-1225			9712	
( ) 349-1908	( ) 762-2235		9809	hamerus@alaska.net
( ) 349-1908			9809	hamerus@alaska.net
( ) 349-1908			9809	hamerus@alaska.net
( ) 892-6311			L048	
			LHON	
( ) 346-4779	( ) 269-8661		L110	jorella@akanmc.alaska.ihs.gov
( ) 346-4779	( ) 263-4874		9711	
( ) 279-1240			9711	
( ) 279-1240			9804	
			9804	
			LHON	
( ) 338-4007	( ) 344-2538		9709	
			L020	
			L118	
( ) 243-0433			L153	
			L076	
( ) 745-5222			9711	
( ) 272-2929			L097	
( ) 333-7793	( ) 333-7934		9711	
			L081	
( ) 333-8212	( ) 337-1211		L025	fpratt@usa.net
( ) 344-5164	( ) 786-7037		9712	
( ) 456-7637			9801	
( ) 344-5164			9712	
( ) 696-2301	( ) 694-2732		9710	
( ) 337-1779	( ) 552-2727		L004	wryter@compuserve.com
			L095	
( ) 344-2775			L050	
( ) 248-7898	( ) 564-4224		L155	
( ) 373-7814	( ) 745-9731		9709	
			L141	
( ) 333-4693			L145	rookus@alaska.net
			L009	herbrose@kobo.net
( ) 345-6038	( ) 265-8845		L121	
(207) 799-1116	(207) 774-0051		L091	
( ) 688-2963	( ) 746-8699		L109	R.Runyan@valley-hosp.com
( ) 376-2857			9810	rutigliano@micronet.net
( ) 694-9289			9712	
( ) 696-4501			9802	sandelkw@alaska.net



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LastName	FirstName	Pfx	#	Sfx	Street	City	ST	Zip
Sandel & Family	Kyle	AL	7	J	8811 July Creek Cr	Eagle River	AK	99577-8557
Saunders	Karen	WL	7	KS	POB 220069	Anchorage	AK	99522-0069
Saunders & Family	W Mel	AL	7	PB	POB 220069	Anchorage	AK	99522-0069
Schmidt	Robert	WA	0	VNY	2006 Parkview Cr	Anchorage	AK	99501-5740
Schroeder	Steve	KL	7	ML	720 Scirocco Dr	Yuba City	CA	95991-7573
Scott	Catherine				7160 E Chester Heights Cr	Anchorage	AK	99504-3560
Scott	Russell	KL	7	EM	2522 6th Av	Canyon	TX	79015-4176
Scott & Family	Thomas				7160 E Chester Heights Cr	Anchorage	AK	99504-3560
Searcy	Linda	NL	7	FY	311 Shadow Ln NE	Olympia	WA	98506-5233
Shafer	Rik	KL	7	HKH	POB 5385	Kent	WA	98064-5385
Sharrock	George	NB	4	U	317 A St #512	Anchorage	AK	99501-2538
Sheley	Roger	NL	7	RY	8830 Greenbelt Dr	Anchorage	AK	99502-5548
Shive	Barbara	KL	7	ZH	POB 111465	Anchorage	AK	99511-1465
Shull Sr	John	W	4	IGM	1410 Wolverine St	Anchorage	AK	99504-2561
Smith	Robin	AL	7	ML	27345 Golden Eagle Ct	Chugiak	AK	99567-5725
Smyers	David	KL	7	OY	7900 Kiana Cr	Anchorage	AK	99507-3055
Sockolosky	Tom	WL	7	S	215 North Ave #358	Westfield	NJ	07090-1495
Soldin	Ernitt	KL	7	ANV	806 W 74th Av	Anchorage	AK	99518-2516
Soltis	Debbie	NL	7	AC	POB 670670	Chugiak	AK	99567-0670
Soltis	Francis	KL	7	UQ	POB 670670	Chugiak	AK	99567-0670
Sommer	Robert	NL	7	HT	POB 204	Galena	AK	99741-0204
Spatzek	Paul	WL	7	BF	PO Box 243525	Anchorage	AK	99524-3525
Spears	Dan	NL	7	UW	PO Box 173	Elmendorf AFB	AK	99505-0173
Spencer	Robert	KL	7	YZ	3605 Arctic Bl #2644	Anchorage	AK	99503-5789
Stanfill	Brian				10100 Betula Dr	Anchorage	AK	99507-4141
Stevens	Daniel	KL	7	WM	205 E Diamond #188	Anchorage	AK	99515-1909
Stevens	David	KL	7	EB	POB 113242	Anchorage	AK	99511-3242
Stevens	Harold	KL	7	HJD	857 Old Melrose Rd	Roseburg	OR	97470-8232
Steward	Arlene	KL	7	HO	12102 Lilac Cr	Anchorage	AK	99516-2258
Steward	Jim	WL	7	HZ	10942 Iditarod Cr	Eagle River	AK	99577-8239
Steward & Family	Harley	KL	7	IZZ	12102 Lilac Cr	Anchorage	AK	99516-2258
Stewart	Enc	AL	7	IM	POB 200948	Anchorage	AK	99520-0948
Stowers	Douglas	WL	7	CD	1051 E 26th Av	Anchorage	AK	99508-3901
Strain	Larry	N	7	DF	5401 E 8th Av	Anchorage	AK	99504-1713
Straff	Dennis	NL	7	DN	7937 Paine Rd	Anchorage	AK	99516-5553
Strother	George	KL	7	DV	POB 871870	Wasilla	AK	99567-1870
Taber	John	AL	7	EG	1801 Rebel Ridge Dr	Anchorage	AK	99504-2931
Talbot	Joseph	KL	7	NK	3622 W 41st Av	Anchorage	AK	99517-2705
Taylor	Art	KL	7	SK	POB 1080	Tenino	WA	98589-1080
Thalaker	Neil	KL	7	BGZ	1540 W 15th Av	Anchorage	AK	99501-4908
Thomas	Bill	KL	7	KJ	RR 1 Box 24A	Spring Creek	PA	16436-9710
Thorsness	Genanne	WL	7	RY	7027 Caravelle Dr	Anchorage	AK	99502-2767
Tucker	Edwin	KL	7	DU	POB 65656-390	Lubbock	TX	79464-5724
Turner	Allen	KL	7	GU	923 W 11th Av #407	Anchorage	AK	99501-4308
Turner	Glen	NF	7	T	RR 1 Box 53	Purcell	OK	73080-9801
Twiggs	John	KL	7	HJZ	Jalan Persiaran Cinta Air, Villa	43000 Kajang,	Malaysia	
Valdrow, Sr	Leo	WL	7	IZ	7621 Maryland Av	Anchorage	AK	99504-1913
Vogel	Dave	WA	9	C	6227 Kratz Av	Evansville	IN	47710-4425
WSYI Report					POB 10101	Dallas	TX	75207-0101
Waalkes & Family	John	KL	0	BG	3103 W 39th Ave	Anchorage	AK	99517-2247
Walter	Lawrence	KL	7	RWC	POB 33915	Juneau	AK	99803-3915
Walters	Henry	AL	7	HY	17467 Kahitna Dr	Eagle River	AK	99577-8127
Walters, Jr	Benj	KL	7	GBC	1034 E 27th Av	Anchorage	AK	99508-3912
Ward	William	KL	7	JFJ	9440 Canton Lp	Anchorage	AK	99515-1475
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Wegmer	Fred	KL	7	HFM	POB 536	Fowlerton	TX	78021-0536
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Westergaard	Kurt	WL	7	CRT	12241 Lake St	Eagle River	AK	99577-7637
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			L146	
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			L152	KIYU@arctic.net
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( ) 345-5871	( ) 263-4915	( ) 263-4035	9810	
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( ) 338-0723			9801	
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LastName	FirstName	Pfx	#	Sfx	Street	City	ST	Zip
Wilke	Patrick	WL	7	JA	1317 W Northern Lights #501	Anchorage	AK	99503-2308
Wilkie	David	AL	7	LH	POB 772814	Eagle River	AK	99577-2814
Wilson	Robert	AL	7	KK	POB 110955	Anchorage	AK	99511-0955
Wilson	Stanton	KL	7	KU	In Memory - Silent Key	Anchorage	AK	
Wolfe	John	AA	0	NN	1503 W 43rd Ave #2	Anchorage	AK	99503-6417
Wolffington	Dell	KL	7	EKB	In Memory - Silent Key	Anchorage	AK	
Woods	Susan	NL	7	NN	POB 220054	Anchorage	AK	99522-0054
Woolsey	Robert	KL	7	ENP	38291 Doe Rd NE	Hanaville	WA	98340-9720
World Radio Inc.					POB 189490	Sacramento	CA	95618-9490

By Ed Mare, W1RFZ

# What's New About the FCC's New RF-Exposure Regulations?

The FCC has answered some of our questions about the RF-exposure rules. Changes to the regulations have a few pleasant surprises for Amateur Radio.

**L**ife seems to happen in spurts and jumps, and the FCC RF-exposure regulations have been no exception. In August of 1996, the FCC announced a new set of RF-exposure regulations. I described these in my January 1997 QST article, "The FCC's New RF-Exposure Regulations". The article discussed how the original standards were developed, the history of the rules, and included an explanation about what was, and was not, required of the Amateur Radio Service. It's a must reading for anyone who wants to understand these rules.

The article you're reading now builds on that foundation, describing what is new, what rules changes and information the FCC has just announced, and what we can expect in the near future.

The January QST article didn't address one important issue: How to go about performing the evaluations. The FCC Office of Engineering and Technology offered to release information for all radio services to use—Bulletin 65—which would offer instructions on routine station evaluation.

Again, we waited.

On August 25, 1997, the wait was partly over—the FCC announced some helpful changes to the rules and released Bulletin 65, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields."

Things are not yet done—the bulletin and rule changes do not offer complete solutions for hams. The FCC is still preparing an amateur supplement to this bulletin, expected to contain more information and easy-to-use charts and tables specific to the Amateur Radio Service. Most hams will use the tables in the supplement to complete their evaluations.

## What Has Stayed the Same?

Most of these rules have not changed from what was announced in 1996:

- The MPE levels are the same.
- Hams can still conduct their own evaluations without having to file paperwork with the FCC.

- Push-to-talk-operated portable and mobile stations are still exempt from the routine evaluation requirement.

- Amateur Radio examinations for some classes of license will contain additional questions about RF safety.

## Effective Date—A Moving Target

All services were originally given a transition period until January 1, 1997, to be in compliance. A number of petitions asked for more time. In response, the FCC extended the transition period for the Amateur Radio Service until January 1, 1998.

The FCC has added an additional transition period for existing installations, establishing September 1, 2000 as a "date certain" by which existing stations must be in full compliance with the rules. Starting January 1, 1998, if a licensee must file a 610 form with the FCC, such as for renewal or change of station location, the station must be in compliance when the 610 form is signed.

## Power Levels

The major change from the old rules is that the power level that triggers the need to do a station evaluation has been increased for the

Amateur Radio Service. Under the rules announced in 1996, all amateur stations using more than 50-W PEP were required to perform a routine evaluation. The ARRL asked that the 50 W be scaled by frequency to match the MPEs in the regulations. The FCC agreed.

Stations that use more power than the levels shown in Table 1 must be evaluated; those using less power must still comply with the exposure limits, but do not need to be evaluated because they are presumed to be in compliance. For the majority of amateurs, this change has virtually eliminated the need to perform station evaluations. Most HF transceivers are rated at 100-W PEP output; on 15 meters and below, stations using this power level need not be evaluated. Most VHF transceivers are rated at 50-W PEP or less; stations using this power level on VHF need not be evaluated. Statistically, most HF operators use "barefoot" rigs, typically 100-W PEP. While this change doesn't cover all barefoot HF operation, operators who wish to use 12 and 10 meters could either perform an evaluation for those two bands, or they could even reduce power to the levels in Table 1 and forgo the evaluation altogether.

## Good News for Multis and Repeater Owners

The new rules have a few provisions that will be helpful to stations located on sites shared with other transmitters. In the 1996 rules, stations at multitransmitter sites were jointly responsible for site compliance if their field exceeded 1% of the permitted MPEs. The new rules have been relaxed. They now exempt those stations whose exposure is less than 5% of that permitted. This actually covers a lot of small stations like amateur repeaters, although a station evaluation may be required to demonstrate that the exposure is below the 5% threshold. For VHF repeaters, though, this evaluation can be fairly straightforward, using the simple far-field formulas for field strength.

## Bulletin 65 Overview

Although the regulations are firm require-

**Table 1**  
Power Thresholds for Routine Evaluation of Amateur Radio Stations

Band (Wavelength)	Transmitter Power (W)
160 m	500
75 m	500
60 m	800
40 m	800
30 m	425
20 m	225
17 m	125
15 m	100
12 m	75
10 m	50
8 - 1.23 m	50
70 cm	70
33 cm	150
23 cm	200
13 cm and up	250

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			L041	
( ) 243-5833	( ) 561-0473	( ) 563-7817	L151	sjw60@juno.com
			L051	
			COMP	

ments, the FCC intends that Bulletin 65 is advisory in nature. To quote directly from the bulletin:

The bulletin offers guidelines and suggestions for evaluating compliance. However, it is not intended to establish mandatory procedures, and other methods and procedures may be acceptable if based on sound engineering practice.

This flexibility applies especially to the Amateur Radio Service; the FCC is relying on the technical ability of hams to select an appropriate method of analysis for the station evaluations.

Although the FCC is preparing an Amateur Radio supplement to Bulletin 65, the "core" bulletin does contain a section on Amateur Radio. Many hams will want to read it to help get a more complete picture of what is expected of operators in all radio services.

#### What's in the Bulletin?

Bulletin 65 was written primarily for commercial radio stations, although the information can be used by any radio service. While hams can use this existing bulletin to complete their station evaluations, they need to be careful. It is easy to get lost in the complex formulas and explanations intended to be most helpful to other radio services. Most hams will find the pending amateur supplement a lot easier to use.

#### Finding Problems

Most amateur stations are already in compliance with the MPE levels. A few hams may need to make some changes to their stations. Bulletin 65 offers guidance and flexibility on what the FCC considers acceptable. Hams can adjust their power, mode, frequency, antenna location, antenna pointing or on-and-off times to bring their operation into compliance. For example, if you discovered that you were not in compliance after 25 minutes of operation when you pointed your antenna in a particular direction, you could either not point your antenna in that direction, or take a break for 5 minutes after 25 minutes of operation.

#### Measurements

It is not likely that many hams will make actual measurements. Even so, Bulletin 65 discusses measurement techniques. Many hams will be surprised at the difficulty of making near-field measurements.

#### Formulas

Bulletin 65 describes how to use far-field formulas to obtain estimates of field strengths in the near field. NEC modeling done by the ARRL shows that the formula applies well to antennas like dipoles and Yagis. We found, however, that it does not apply well to some antenna types such as small loops, so these formulas should be used with some caution.

The formulas apply to the field-strength levels in the main beam of the antenna. For this reason, they may result in an overly con-

Table 2

Estimated Distances to meet RF power density guidelines in the main beam of a typical 3-element Yagi for the 28-MHz Amateur Radio band. Calculations include the EPA ground-reflection factor of 2.56.

Frequency: 28 MHz  
Antenna gain: 8 dBi

Controlled limit: 1.15 mW/cm<sup>2</sup>

Uncontrolled limit: 0.23 mW/cm<sup>2</sup>

Transmitter power (watts)	Distance to controlled limit (feet)	Distance to uncontrolled limit (feet)
100	11	24.5
500	24.5	54.8
1000	34.7	77.6
1500	42.5	95.1

Table 3

Compliance Distances in Feet—Uncontrolled/General Public Environment.

10 meter three-element Yagi array  
Antenna Height = 40 feet

Average Transmitter power (watts)	Height Above Ground 8 ft	12 ft	20 ft
100	0	0	0
500	0	0	28
1000	0	52	80
1500	84	78	93

#### Resources

See the ARRL RF-safety Web page at <http://www.arrl.org/news/rfsafety/> for the latest news and links to other Web sites.

An "RF-Exposure Information Package" is available from the ARRL Technical Department Secretary for \$2 for members, \$4 for non-members, postpaid.

The FCC has a number of pages devoted to the RF-exposure rules. Start with <http://www.fcc.gov/oet/dockets/rt93-62/> and go from there.

servative estimate for many actual installations. The ARRL has supplied the FCC with data tables illustrating real antennas over real grounds to offer realistic compliance distances. The FCC will include some of these tables in the amateur supplement to Bulletin 65, along with some simple tables based on the worst-case formulas.

You don't need to resort to complicated formulas to do the worst-case analysis. Check the University of Texas Amateur Radio Club site at <http://www.cs.utexas.edu/users/kharker/rfsafety/>. You'll find a "form" that allows you to enter transmitter power, antenna gain and distance. After you enter the information, it calculates the field strength and tells you if you are in compliance. (If you're not in compliance, it tells you at what distance you would be in compliance.)

These simple calculations can be a good tool because if you pass "worst-case," you pass. If you use peak-envelope power in these estimates, this is truly a worst-case; the regulations are specified in terms of average ex-

posure, averaged over 30 minutes for uncontrolled exposure environments, 6 minutes for controlled environments. You also should use the ground-reflection options that are part of the formulas or programs if you want to ensure that you have a truly worst-case estimate.

#### What Is Coming

This first part of Bulletin 65 and the rules changes have answered some of our questions. Many hams will find that they may not have to do station evaluations at all. Others can use the formulas to calculate their worst-case compliance. Some hams, though, will find it a lot easier to wait for the amateur supplement to use the simple lookup tables.

We can't say for certain what will appear in the supplement, but based on what we have learned from the FCC, we can offer an overview.

Most hams will probably use the worst-case lookup tables. Table 2 gives an example based on a 3-element Yagi at 28-MHz. If you pass with this table, you pass on 10 meters for this antenna. (Don't forget to use power averaged over the appropriate time period, not PEP for these calculations.)

For many antenna types, the antenna radiates more energy upward toward the ionosphere than it does downward toward people. The ARRL has developed a number of tables based on NEC4 analysis of real antennas over real ground.

Refer to Table 3 for an example of a 10-meter, 3-element Yagi at 40 feet above ground. It shows how far you must be from the antenna to meet the requirements if the exposure point is at either (a) ground level, (b) first-story height of 12 feet, or (c) second-story height of 20 feet. Note that these distances are smaller than for those of the worst-case scenario. In several cases, the table takes some pretty wild jumps, as noted between 1000 W and 1500 W at the 6-foot compliance point level. This is due to the distribution of fields under the antenna; the field strength is actually less right under the antenna than it is some distance away.

The FCC is including these tables in the amateur supplement. They also suggest that hams can use various software approaches to calculating compliance. When this supplement is released, we'll follow up with another article telling you how to use it. An ARRL book on the RF-exposure regulations will be available near the end of the year. **894C**



**TIP of the Month!**

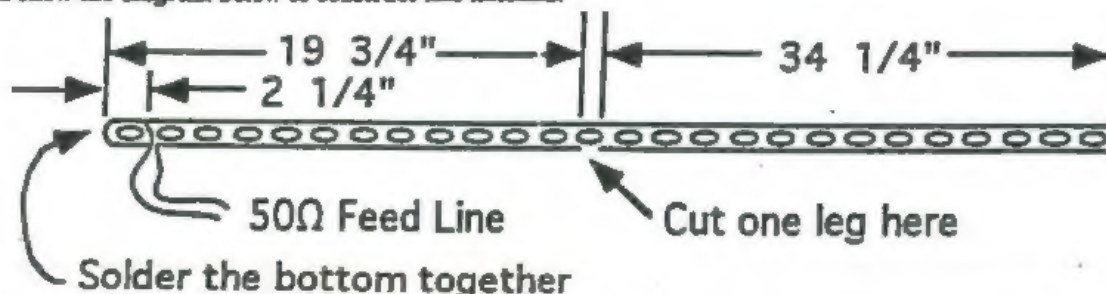
idea "borrowed" from Herm, W9FHW

Remember that last trip you took and stayed in that motel in the middle of nowhere and had the bad cable TV so that you were bored...so, you fired up your trusty HT and could hear other stations but they COULD NOT hear you...? Did you need a better antenna and you really did not want to go out and "peel off" the magmount only to find it did not work well without the car's metal as a counterpoise? ...sound familiar?

Here is a solution for this dilemma for your next trip and won't cost you a lot of money! Its a "roll up J-pole" that you make from ladder line...you can build it in an hour and tuck it away in your suitcase for the next trip!

Parts needed: 54 inches of 450 ohm ladder line, about 3-4 feet of 50ohm coax feed line, a coax connector (+ adapter to BNC), solder, and your trusty soldering iron and wire cutters

Follow the diagram below to construct this antenna:



To adjust the SWR, simply trim about 1/4" off at a time from the top of the longest leg to get it to your favorite repeater frequency.

This antenna works well on 2M and 440. Use proportional values to design one for 220.

Helpful hint: cover the connections at the base of the antenna with shrink tubing to prevent any contact with the soldered joints—your HT puts out enough power to give you a burn if you touch them while transmitting!

Send your contribution for "Tip of the Month" to SMOKE TEST—please identify the source if known

Chicago FM Club

SQUELCH TALE

June 1997

**The Ten Commandments of Electrical Safety**

I Beware of the lightning that lurketh in an undischarged capacitor lest it cause thee to bounce upon thy buttocks in a most embarrassing manner.

II Cause thou the switch that supplieth large quantities of juice to be opened and thusly tagged, that thy days may be long in this earthly vale of tears.

III Prove to thyself that all circuits that radiateth and upon which thou worketh are grounded and thusly tagged, lest they lift thee to a radio frequency potential and causeth thee to make like a radiator also.

IV Tarry thou not amongst those fools that engage in intentional shocks, for they are not long for this world and are surely unbelievers.

V Take care thou useth the proper method when thou takest the measures of high voltage circuits so that thou dost not incinerate both thee and thy test meter, for verily, though thou hast no stock number and can be easily surveyed, the test meter has one and as a consequence will bringeth much woe unto the supply officer.

VI Take care thou tamperest not with interlocks and safety devices lest this incurreth the wrath of thy supervisor and bring the fury of the safety officer upon his head.

VII Work thou not on energized equipment for if thou doest so thy shipmates will surely be buying beers for thy widow and consoling her in certain ways not generally acceptable to thee.

VIII Verily, verily I say unto thee never service equipment alone for electrical cooking is a slow process and thou might sizzle in thy own fat upon a hot circuit for hour on end before thy maker sees fit to end thy misery and drag thee into his fold.

IX Trifle thee not with radioactive tubes and like substances, lest thou commence to glow in the dark like a lightning bug and thy spouse be frustrated and have no further use for thee except for thy wages.

X Thou shalt not make unauthorized modifications to equipment, but causeth instead to be recorded all technical directives and authorized modifications made by thee, lest thy successor tear his hair and go slowly mad in his attempt to decide what manner of creature hath made a nest in the wiring of such equipment.



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## Notice

Have you ever had the desire to be a Publisher, Writer, Newspaper Editor and your own Boss?

As of January 1, 1998 there will be an opening for just such a job!!

The Anchorage Amateur Radio Club Newsletter, Volume 27, Issue 2 will be in need of a New

Editor, Publisher, etc. I am going to Retire from that job after putting out the January Issue.

I use Microsoft Publisher for most of the newsletter and the program is available

for that purpose. I will give assistance and guidance in putting out the February and March issues to whoever becomes the New Editor. If you have any questions regarding the Newsletter

Call Harvey NL7DK at 333-4693 or e-mail: [rookus@alaska.net](mailto:rookus@alaska.net)

**Notice**

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